

Current Claim Schedule

- 1 1. (Currently Amended) A floating-probe flowmeter for measuring the flow rate of a
2 moving medium, with a measuring tube through which flows a medium against the force
3 of gravity, said measuring tube containing a float capable of moving at least in the direc-
4 tion of the flow, wherein at least the surface of the float that is exposed to the flow of the
5 medium is provided with a microstructure comprising a field of peaks and/or that the in-
6 ner surface of the measuring tube at least in the area of movement of the float is provided
7 with a microstructure comprising a field of peaks.
- 1 2. The floating-probe flowmeter as in claim 1, wherein the peaks of the microstruc-
2 ture are between 5 and 400 μm high and the apices of neighboring peaks are spaced apart
3 by a distance of between 5 and 800 μm .
- 1 3. The floating-probe flowmeter as in claim 2, wherein neighboring peaks are of ap-
2 proximately equal height and the apices of neighboring peaks are spaced apart by a dis-
3 tance corresponding to about 1 to 2 times the height of the peaks.
- 1 4. (Currently Amended) The floating probe flowmeter as in claim 2, wherein the
2 neighboring peaks are between 5 and 100 μm high and the apices of neighboring ~~probes~~
3 peaks are spaced apart by a distance of between 5 and 200 μm .
- 1 5. (Currently Amended) The floating-probe flowmeter as in one of the claims 1 to 3,
2 wherein the peaks of ~~the~~ said microstructure are hydrophobic.